Halibut Length-Weight Data from the Southern British Columbia Recreational Fishery, 2000-2004

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V9T 6N7

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ABSTRACT

Shaw, W., Jordan, C., and Hein, K. 2006. Halibut length-weight data from the southern British Columbia recreational fishery, 2000-2004. Can. Data Rep. Fish. Aquat. Sci. 1173: iv + 19 p.

The Georgia Strait recreational creel survey program includes the collection of catch statistics for Pacific halibut. In 2002 the creel program included biological sampling of halibut. This report describes the halibut sampling procedure and presents both length and weight data collected from Southern British Columbia waters from 2000 to 2004. The data is arranged by date, fork length, round weight and net weight. Net weight is calculated as 75% of round weight.

RÉSUMÉ

Shaw, W., Jordan, C., and Hein, K. 2006. Halibut length-weight data from the southern British Columbia recreational fishery, 2000-2004. Can. Data Rep. Fish. Aquat. Sci. 1173: iv + 19 p.

Le programme d'enquête par interrogation du pêcheur comporte un volet portant sur les statistiques de capture du flétan du Pacifique. En 2002, le programme comprenait également une campagne d'échantillonnage biologique portant sur cette espèce. Le présent rapport décrit la méthodologie employée et les données taille-poids recueillies concernant les populations du Sud de la Colombie-Britannique au cours de la période 2000-2004. Les données sont présentées selon la date, la longueur à la fourche, le poids brut (non éviscéré) et le poids net (75 % du poids brut).

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1.0 Introduction

The recreational fishery for Pacific halibut (*Hippoglossus stenolepis)* is an important fishery on Canada's Pacific Coast. Over the years there has been a change in the composition of the recreational fleet with larger boats venturing further offshore to fish for halibut and salmon. The use of Global Positioning Systems and other navigational aids have allowed anglers to locate fishing positions that have produced halibut (King and Gjernes 1999). Concurrent with the expansion of this fishery the recreational creel monitoring program needed to be modified in order to accommodate additional species.

Since 1980, the creel survey program has monitored the recreational fishery activity throughout the Strait of Georgia and the Juan de Fuca Strait. The creel program expanded to monitor the west coast of Vancouver Island recreational fishery in 1984. The survey provides monthly and annual catch and release estimates for all species caught in the recreational fishery. In addition, some biological sampling is conducted of chinook and coho salmon. Monitoring Pacific halibut catch is part of the creel survey program. This program was expanded in 2000 to include halibut biological sampling.

This report presents halibut length and weight data collected from the recreational fishery in Southern British Columbia waters from 2000 to 2004.

2.0. Sampling Procedures

Pacific halibut biological data was collected from the recreational angler interviews in the Southern BC waters from 2000 to 2004. The procedures for sampling halibut were modified from the creel survey program outlined by Hardie et al. (2003). In this case, creel personnel would interview all of the boats returning from a trip on a particular day and then either sample all of the halibut from these boats or they would sample all halibut from a random number of boats and avoiding any bias in the sampling. The original objective of the biological sampling program for halibut was to obtain fork length measurements. The program was expanded from 2002 to 2004 to include round weight measurements.

Fork lengths were measured to the nearest centimeter (cm) by the interviewers using a fabric tape measuring approximately 150 cm long. The tape would be stretched on the ground and the halibut placed onto the tape. Weights were either recorded in pounds (lbs) using a "hand held" weigh scale with a maximum weight capacity of approximately 50 lbs or by using marina and landing site public access scales. Round weight refers to a halibut's total weight (head on and not gutted). Net weight refers to a "dressed" halibut (head off and gutted) that is calculated at 75% of the round weight of the halibut.

A creel survey data sheet was used to record the daily statistics (Appendix 1). The primary data included fishing location by site and by Pacific Fishery Management Area (PFMA), date and time of fishing, number of anglers on the fishing vessel, catch and release of salmon, halibut, rockfish, other groundfish, and biological information that include length and weight data.

2.1. Sampling Locations

Southern waters of British Columbia were divided into PFMA 12 to 19 (Strait of Georgia) and PMFA 20, 23 to 27 and 121-125 (West Coast of Vancouver Island) (Figure 1). The creel observers were assigned to monitor strategic landing locations in each PFMA in a season. These locations can include popular boat ramps, docks, fish camps, and lodges.

Halibut data were collected throughout the year in Victoria (PFMA 19). The creel survey effort in the remaining areas of Southern British Columbia waters occurred from the beginning of April through to the end of September. The months selected for monitoring each of the locations was setup to ensure about 85% coverage of the fishing season.

2.2. Angler Interviews

Angler interviews are described in the creel survey report by Hardie et al. (2003). Trained interviewers with experience in fish species identification and biological sampling inspected the sport fish catches. Fork lengths and weights were taken from halibut as described in the sampling procedures section.

In the past, halibut data has been gathered opportunistically. However, more recently, the samplers have increased their effort to collect more halibut length and weight information.

3. 0. Data

The data collected by the creel observers is presented in Appendix 2 by the following attributes:

Date - sampling date (year, month) (ie. 0002= 2000, February)
Area – Pacific Fishery Management Area (referred as Statistical Area)
Fork Length - Measured in centimeters (cm)
Round Weight - Recorded in pounds (lbs)
Net Weight - Recorded in pounds (lbs)

4.0. References

Hardie, D.C., Nagtegaal, D.A, Hein, K., Sturhahn, J. 2003. Strait of Georgia and Northern Vancouver Island Sport Fishery Creel Survey Statistics for Salmon and Groundfish, 2001. Can. Manuscr. Rep. Fish. Aquat. Sci. 2640: 107 p.

King, J.R., and Gjernes, T.W. 1999. Estimate of 1998 Recreational Halibut Catch in British Columbia Waters, 25pp. Canadian Stock Assessment Secretariat Research Document 99/121.

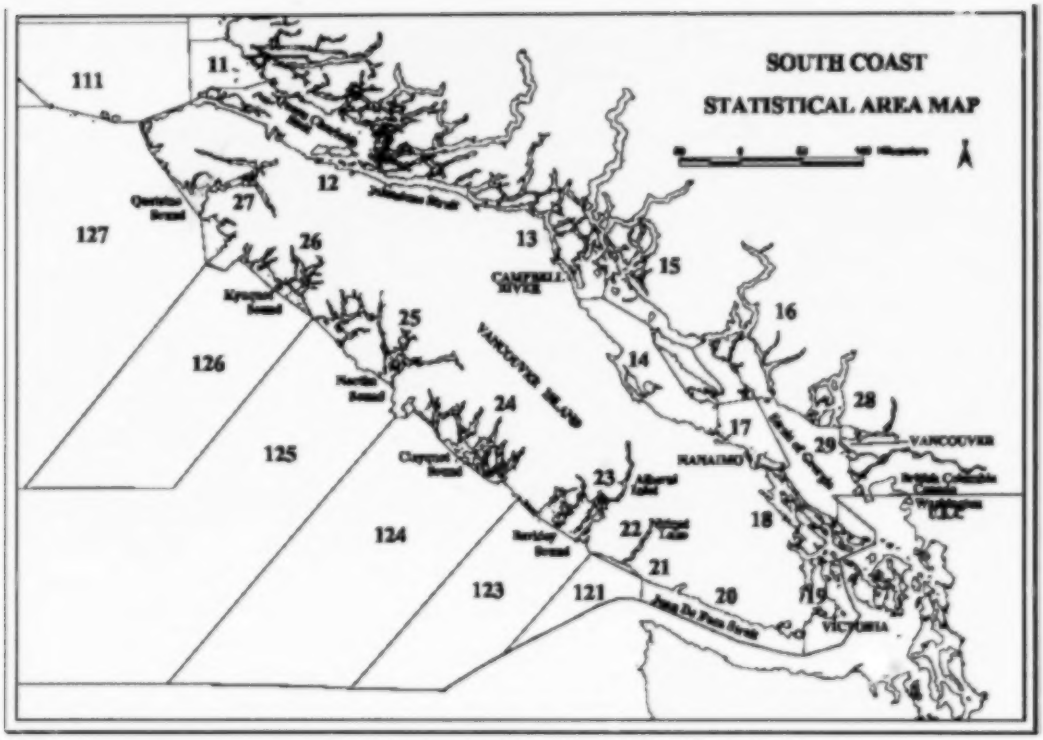

Figure 1. Southern British Columbia Waters Pacific Fishery Management Areas.

Appendix 1. Sport Fishing Creel Survey Sheet

Fisheries and Oceans Canada — **Sport Fishing Creel Survey**

Landing Site#_____ Interviewer#_____ Date___/___/___ (DD/MM/YY) Interview#_____ Page____of____

Today's Boat Trip Completed

1. Number of Anglers:_____ (= sum of question #4)
2. Time of Landing(24Hrs) ____:____ TimeBlock_____
3. Sport Fishing(Y=1 N=0) _____ Guided? (Y=1 N=0) _____
4. Residence of Anglers: BC_____ Rest of Can_____ US_____ Other
5. Time of Departure(24Hrs) ____:____ Length of Boat Trip(Hrs) _____

Assessment Code

0 = Complete Form
1 = Adipose Not Checked
2 = Shell Fishing Only
3 = Fish not seen (part or all)
4 = Refusal
5= Incomplete Form (circle missing information)

6. Time Lines were in the water (Mark Appropriate Blocks)
7. Number of lines in the water for Fishing Party_____
8. Catch Summary

Sub Area:	Time:	Gear:	
Species	**Kept**	**R.Legal**	**R.Sublegal**

	Clipped	**Unclipped**
Chinook		
Coho		

Salmon Location	Chart:	Site
Rockfish Location	Chart:	Site
Groundfish Location	Chart:	Site:
Shellfish Location	Chart:	Site:

☐ 1 Before 7:00
☐ 2 7:00-7:59
☐ 3 8:00-8:59
☐ 4 9:00-9:59
☐ 5 10:00-10:59
☐ 6 11:00-11:59
☐ 7 12:00-12:59
☐ 8 13:00-13:59
☐ 9 14:00-14:59
☐ 10 15:00-15:59
☐ 11 16:00-16:59
☐ 12 17:00-17:59
☐ 13 18:00-18:59
☐ 14 19:00-19:59
☐ 15 20:00-20:59
☐ 16 After 21:00

6. Time Lines were in the water (Mark Appropriate Blocks)
7. Number of lines in the water for Fishing Party_____
8. Catch Summary

Sub Area:	Time:	Gear:	
Species	**Kept**	**R.Legal**	**R.Sublegal**

	Clipped	**Unclipped**
Chinook		
Coho		

Salmon Location	Chart:	Site
Rockfish Location	Chart:	Site
Groundfish Location	Chart:	Site
Shellfish Location	Chart:	Site:

☐ 1 Before 7:00
☐ 2 7:00-7:59
☐ 3 8:00-8:59
☐ 4 9:00-9:59
☐ 5 10:00-10:59
☐ 6 11:00-11:59
☐ 7 12:00-12:59
☐ 8 13:00-13:59
☐ 9 14:00-14:59
☐ 10 15:00-15:59
☐ 11 16:00-16:59
☐ 12 17:00-17:59
☐ 13 18:00-18:59
☐ 14 19:00-19:59
☐ 15 20:00-20:59
☐ 16 After 21:00

				Chinook Only		**Coho and Chinook**						
Species	Sub area	Length (mm)	Sex N/C=0 Male=1 Female=2 Unable=9	Scale Book No:	Scale No:	Adipose clip Y=1 N/C=0	Head Tag No:	Flesh Colour R=0 W=1 M=2	DNA Vial	Weight mark lbs kg	Lingcod Fin No:	Otolith #

11. **Shellfish Only** (units: 1 = Number, 2 = Weight in kg)

Target Species	Gear Code	Trap QT	SubArea	Soak Time	Landed Species	Units	Kept	Rel

Check Here if Using Back ☐

9. How Much Time in ½ Hrs was directed at the following?

Chinook_____ Coho_____ Salmon_____
Lingcod_____ Rockfish_____ Halibut_____
Groundfish_____ Shellfish_____ Other_____

10. **Seal Encounters** (Y=1 N=0)

a) Did you change position to avoid seals? ____
b) How many of the following were lost?
CN____ CO____ PK____ SO____ CM____
AT____ SM____ RF____
c) Did you see your fish in the seal's mouth? ____
d) Did you land a partial fish? ____

Appendix 2. Halibut Length-Weight Data 2000-2004.

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0002	19	117	-	-
0003	19	122	-	-
0003	19	131	-	-
0003	19	100	-	-
0003	19	140	-	-
0005	19	116	-	-
0005	19	120	-	-
0005	19	130	-	-
0005	19	116	-	-
0005	19	110	-	-
0005	19	120	-	-
0005	19	141	-	-
0006	12	72	-	-
0006	12	112	-	-
0006	12	76	-	-
0006	12	81	-	-
0006	12	70	-	-
0006	12	72	-	-
0006	12	77	-	-
0006	19	169	-	-
0006	19	140	-	-
0007	12	84	-	-
0007	12	112	-	-
0007	12	165	-	-
0007	12	143	-	-
0007	12	122	-	-
0007	12	130	-	-
0007	12	88	-	-
0007	12	80	-	-
0007	12	123	-	-
0007	12	113	-	-
0007	12	107	-	-
0007	12	146	-	-
0007	12	76	-	-
0007	12	110	-	-
0007	12	74	-	-
0007	12	79	-	-
0007	12	93	-	-
0007	12	94	-	-
0007	12	80	-	-
0007	12	122	-	-
0007	12	100	-	-
0007	12	130	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0007	12	85	-	-
0007	12	86	-	-
0007	12	86	-	-
0007	12	79	-	-
0007	12	77	-	-
0007	12	79	-	-
0007	12	89	-	-
0007	12	73	-	-
0007	12	82	-	-
0007	12	81	-	-
0007	12	67	-	-
0007	12	150	-	-
0007	12	114	-	-
0007	12	87	-	-
0007	12	111	-	-
0007	12	103	-	-
0007	12	101	-	-
0007	12	129	-	-
0007	12	91	-	-
0007	12	81	-	-
0007	12	84	-	-
0007	12	106	-	-
0007	12	92	-	-
0007	12	86	-	-
0007	12	101	-	-
0007	12	92	-	-
0007	12	115	-	-
0007	12	86	-	-
0007	12	90	-	-
0007	12	92	-	-
0007	12	86	-	-
0007	12	152	-	-
0007	12	85	-	-
0007	12	85	-	-
0007	12	79	-	-
0007	12	121	-	-
0007	12	110	-	-
0007	12	120	-	-
0007	12	81	-	-
0007	12	88	-	-
0007	12	79	-	-
0007	12	82	-	-
0007	12	80	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0007	12	76	-	-
0007	12	68	-	-
0007	12	99	-	-
0007	12	118	-	-
0007	12	76	-	-
0007	12	91	-	-
0007	12	183	-	-
0007	12	126	-	-
0007	12	84	-	-
0007	12	102	-	-
0007	12	92	-	-
0007	12	96	-	-
0007	12	91	-	-
0007	12	82	-	-
0007	19	98	-	-
0008	12	127	-	-
0008	12	135	-	-
0008	12	125	-	-
0008	12	90	-	-
0008	12	92	-	-
0008	12	96	-	-
0008	12	97	-	-
0008	12	145	-	-
0008	12	120	-	-
0008	12	150	-	-
0008	12	106	-	-
0008	12	110	-	-
0008	12	76	-	-
0008	12	92	-	-
0008	12	87	-	-
0008	12	81	-	-
0008	12	75	-	-
0008	12	60	-	-
0008	12	71	-	-
0008	12	88	-	-
0008	12	80	-	-
0008	12	83	-	-
0008	12	79	-	-
0008	12	76	-	-
0008	12	91	-	-
0008	12	82	-	-
0008	12	81	-	-
0008	12	151	-	-
0008	12	72	-	-
0008	12	111	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0008	12	137	-	-
0008	12	148	-	-
0008	12	81	-	-
0008	12	86	-	-
0008	12	69	-	-
0008	12	143	-	-
0008	12	87	-	-
0008	12	180	-	-
0008	12	200	-	-
0008	12	107	-	-
0008	12	64	-	-
0008	12	132	-	-
0008	12	82	-	-
0008	12	84	-	-
0008	12	73	-	-
0008	12	82	-	-
0008	12	79	-	-
0008	12	119	-	-
0008	12	110	-	-
0008	12	88	-	-
0008	12	84	-	-
0008	12	103	-	-
0008	12	91	-	-
0008	12	92	-	-
0008	12	143	-	-
0009	12	93	-	-
0009	12	84	-	-
0009	12	86	-	-
0009	12	84	-	-
0009	19	117	-	-
0010	19	135	-	-
0012	19	114	-	-
0104	13	65	-	-
0105	19	69	-	-
0105	19	70	-	-
0105	19	70	-	-
0105	19	71	-	-
0105	19	71	-	-
0105	19	71	-	-
0105	19	73	-	-
0105	19	73	-	-
0105	19	74	-	-
0105	19	74	-	-
0105	19	75	-	-
0106	13	75	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0106	14	75	-	-
0106	19	75	-	-
0107	12	75	-	-
0107	23	75	-	-
0107	23	75	-	-
0107	27	75	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	76	-	-
0107	27	77	-	-
0107	27	77	-	-
0107	27	77	-	-
0107	27	77	-	-
0107	27	77	-	-
0107	27	78	-	-
0107	27	78	-	-
0107	27	78	-	-
0107	27	79	-	-
0107	27	79	-	-
0107	27	79	-	-
0107	27	79	-	-
0107	27	80	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	81	-	-
0107	27	83	-	-
0107	27	83	-	-
0107	27	83	-	-
0107	27	84	-	-
0107	27	86	-	-
0107	27	86	-	-
0107	27	90	-	-
0107	27	90	-	-
0107	123	91	-	-
0107	123	92	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0107	123	96	-	-
0107	123	98	-	-
0107	123	98	-	-
0107	123	103	-	-
0107	123	108	-	-
0107	123	108	-	-
0107	123	109	-	-
0107	123	113	-	-
0107	123	116	-	-
0107	123	125	-	-
0107	123	130	-	-
0108	19	131	-	-
0108	27	136	-	-
0108	27	137	-	-
0108	27	139	-	-
0108	27	140	-	-
0108	123	151	-	-
0108	123	163	-	-
0206	23	99	24	18
0206	123	119	45	34
0206	123	124	48	36
0206	123	122	50	38
0206	123	81	14	11
0206	123	84	16	12
0206	123	85	15	11
0206	123	86	16	12
0206	123	109	30	23
0206	123	92	18	14
0206	123	82	12	9
0206	123	93	18	14
0206	123	88	18	14
0206	123	82	15	11
0206	123	90	20	15
0206	123	99	24	18
0206	123	76	11	8
0206	123	94	23	17
0206	123	80	16	12
0206	123	85	18	14
0206	123	78	16	12
0206	123	80	15	11
0206	123	85	18	14
0206	123	85	17	13
0206	123	86	18	14
0206	123	91	21	16
0206	123	141	86	65

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0206	123	86	16	12
0206	123	94	19	14
0206	123	85	16	12
0206	123	83	15	11
0206	123	82	14	11
0206	123	117	61	46
0206	123	154	95	71
0206	123	115	46	35
0206	124	78	14	11
0206	124	66	10	8
0207	23	89	20	15
0207	23	93	22	17
0207	23	90	20	15
0207	23	105	32	24
0207	25	67	6	5
0207	25	72	12	9
0207	25	130	80	60
0207	25	82	17	13
0207	25	80	19	14
0207	26	95	20	15
0207	26	97	26	20
0207	26	82	14	11
0207	26	78	13	10
0207	26	63	9	7
0207	26	76	16	12
0207	26	80	20	15
0207	26	84	18	14
0207	26	105	34	26
0207	123	83	14	11
0207	123	83	16	12
0207	123	73	12	9
0207	123	79	12	9
0207	123	76	12	9
0207	123	72	9	7
0207	123	67	8	6
0207	123	62	5	4
0207	123	75	11	8
0207	123	69	9	7
0207	123	65	9	7
0207	123	69	8	6
0207	123	68	7	5
0207	123	98	24	18
0207	123	83	17	13
0207	123	89	19	14
0207	123	85	16	12

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0207	123	85	16	12
0207	123	90	22	17
0207	123	98	25	19
0207	123	111	34	26
0207	123	77	11	8
0207	123	74	10	8
0207	123	79	11	8
0207	123	75	10	8
0207	123	73	-	-
0207	123	87	-	-
0207	123	81	-	-
0207	123	84	16	12
0207	123	116	10	8
0207	123	75	13	10
0207	123	88	17	13
0207	123	76	14	11
0207	123	87	18	14
0207	123	83	-	-
0207	123	83	-	-
0207	123	64	-	-
0207	123	70	-	-
0207	123	114	45	34
0207	123	89	26	20
0207	123	82	-	-
0207	123	87	-	-
0207	123	88	-	-
0207	123	79	-	-
0207	123	84	-	-
0207	123	94	-	-
0207	123	106	-	-
0207	123	87	-	-
0207	123	90	20	15
0207	123	74	11	8
0207	123	95	23	17
0207	123	77	13	10
0207	123	86	18	14
0207	123	80	15	11
0207	123	82	16	12
0207	123	98	37	28
0208	12	87	12	9
0208	12	70	10	7
0208	12	70	10	7
0208	12	81	14	11
0208	23	112	42	32
0208	24	88	15	11

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0208	24	123	50	38
0208	26	85	18	14
0208	26	77	12	9
0208	26	89	22	17
0208	26	69	10	8
0208	26	68	8	6
0208	26	78	16	12
0208	26	83	20	15
0208	26	74	10	7.5
0208	26	89	17	13
0208	26	89	17	13
0208	26	77	12	9
0208	26	87	17	13
0208	26	77	16	12
0208	26	61	-	-
0208	26	68	-	-
0208	26	73	-	-
0208	26	93	26	20
0208	26	85	20	15
0208	26	74	14	11
0208	26	86	18	14
0208	26	83	19	14
0208	26	117	60	45
0208	26	79	16	12
0208	26	88	22	17
0208	26	74	11	8
0208	26	89	21	16
0208	26	77	12	9
0208	123	65	9	7
0208	123	82	16	12
0208	123	83	18	14
0208	123	84	18	14
0208	123	75	12	9
0208	123	73	11	8
0208	123	74	12	9
0208	123	78	10	8
0208	123	79	13	10
0208	123	63	5	4
0208	123	90	20	15
0208	123	69	9	7
0208	123	98	-	-
0208	123	87	-	-
0208	123	86	-	-
0208	123	98	-	-
0208	123	92	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0208	123	90	-	-
0208	123	86	-	-
0208	123	89	-	-
0208	123	85	-	-
0208	123	76	-	-
0208	123	84	-	-
0208	123	84	-	-
0208	123	79	18	14
0208	123	84	17	13
0208	123	84	18	14
0208	123	90	22	17
0208	123	84	18	14
0208	123	74	12	9
0208	123	90	22	17
0208	123	83	18	14
0208	123	84	18	14
0208	123	118	47	35
0208	123	82	16	12
0208	123	72	-	-
0208	123	77	-	-
0208	123	75	-	-
0208	123	76	-	-
0208	123	86	-	-
0208	123	83	-	-
0208	123	98	-	-
0208	123	72	-	-
0208	123	91	-	-
0208	123	109	31	23
0208	123	116	43	32
0208	123	123	52	39
0208	123	66	-	-
0208	123	72	-	-
0208	123	82	-	-
0208	123	64	-	-
0208	123	72	-	-
0208	123	95	-	-
0208	123	93	-	-
0208	123	65	-	-
0208	123	78	-	-
0208	123	80	-	-
0208	123	82	-	-
0208	123	91	-	-
0208	123	79	-	-
0208	124	145	85	64
0209	23	138	84	63

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0209	23	149	94	71
0211	19	94	22	17
0304	19	116	-	-
0304	19	96	-	-
0304	19	98	-	-
0304	19	77	-	-
0304	19	98	-	-
0304	19	85	18	14
0304	19	141	83	62
0304	19	84	18	14
0304	20	89	22	17
0304	20	86	22	17
0305	19	174	141	106
0305	20	109	34	26
0306	13	82	14	11
0306	20	113	41	31
0306	20	110	34	26
0306	20	144	48	36
0306	23	82	14	11
0306	23	76	11	8
0306	23	78	13	9
0306	24	66	8	6
0306	121	88	16	12
0306	121	89	16	12
0306	121	91	174	131
0306	121	106	26	20
0306	121	105	24	18
0306	121	96	20	15
0306	121	84	14	11
0306	121	115	8	6
0306	121	90	14	11
0306	121	90	19	14
0306	121	112	35	26
0306	121	95	26	20
0306	121	91	17	13
0306	121	89	19	14
0306	121	93	19	14
0306	121	103	26	20
0306	121	96	20	15
0306	121	83	14	11
0306	121	83	15	11
0306	121	88	14	11
0306	121	87	16	12
0306	121	107	32	24
0306	121	79	12	9

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0306	121	87	19	14
0306	121	92	18	14
0306	121	80	11	8
0306	123	87	17	13
0306	123	108	39	29
0306	123	74	11	8
0306	123	74	10	8
0306	123	108	31	23
0306	123	96	23	17
0306	124	96	17	13
0306	124	69	-	-
0306	124	121	47	35
0306	124	137	81	61
0306	124	84	16	12
0306	124	132	68	51
0306	124	101	26	20
0306	124	100	30	23
0306	124	78	-	-
0306	124	70	-	-
0306	124	71	-	-
0306	124	66	-	-
0306	124	79	-	-
0306	124	81	13	10
0306	124	81	13	9
0306	124	87	17	13
0306	124	114	40	30
0307	20	129	54	41
0307	20	145	67	50
0307	121	90	18	13
0307	121	106	30	23
0307	121	112	38	28
0307	121	145	72	54
0307	121	112	-	-
0307	121	98	27	20
0307	121	99	27	20
0307	121	102	25	19
0307	121	91	17	13
0307	121	104	24	18
0307	121	117	37	28
0307	121	89	15	11
0307	121	132	65	49
0307	121	85	14	11
0307	121	84	12	9
0307	123	77	11	8
0307	123	83	12	9

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0307	123	75	11	8
0307	123	83	15	11
0307	123	80	3	2
0307	123	92	23	17
0307	123	64	6	5
0307	123	84	22	17
0307	123	70	9	6
0307	123	75	12	9
0307	123	83	16	12
0307	123	68	9	6
0307	123	82	16	12
0307	123	74	10	8
0307	123	77	12	9
0307	124	98	24	18
0307	124	99	20	15
0307	124	107	35	26
0307	124	108	32	24
0307	124	71	-	-
0307	124	136	68	51
0307	124	103	28	21
0307	124	68	-	-
0307	124	119	-	-
0307	124	64	-	-
0307	124	166	-	-
0307	124	101	-	-
0307	124	137	67	50
0307	124	77	-	-
0307	124	83	-	-
0307	124	83	-	-
0307	124	73	-	-
0307	124	72	8	6
0307	124	142	-	-
0307	124	131	60	45
0307	124	97	24	18
0308	12	89	18	14
0308	12	86	15	11
0308	24	78	12	9
0308	123	80	-	-
0308	124	74	-	-
0308	124	121	46	35
0308	124	80	-	-
0308	124	77	-	-
0308	124	80	-	-
0308	124	84	-	-
0308	124	84	-	-

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0308	124	77	-	-
0308	124	73	-	-
0308	125	69	10	8
0308	125	89	23	17
0402	19	112	-	-
0402	19	80	-	-
0402	19	79	-	-
0403	19	104	30	23
0403	19	103	27	20
0403	19	98	25	19
0403	19	93	-	-
0403	20	137	65	49
0404	19	93	-	-
0404	19	94	-	-
0404	19	108	-	-
0404	19	105	-	-
0404	19	81	-	-
0404	19	102	-	-
0404	19	104	32	24
0404	19	87	18	14
0404	19	111	49	37
0404	19	119	51	38
0404	19	103	-	-
0405	19	115	47	35
0405	19	142	86	65
0405	19	71	-	-
0405	19	86	-	-
0405	19	123	52	39
0406	14	104	35	26
0406	19	103	35	26
0406	23	73	8	6
0406	24	75	12	9
0406	121	93	18	14
0406	121	133	44	33
0406	121	89	17	12
0406	121	82	13	10
0406	121	160	35	26
0406	121	124	65	49
0406	121	107	40	30
0406	121	90	16	12
0406	121	126	49	37
0406	121	87	20	15
0406	121	101	35	26
0406	121	89	18	14
0406	121	95	22	17

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	121	96	24	18
0406	121	163	45	34
0406	121	92	19	14
0406	121	106	20	15
0406	121	67	10	8
0406	121	97	20	15
0406	121	78	13	10
0406	121	75	15	11
0406	121	125	50	38
0406	121	120	50	38
0406	121	113	40	30
0406	121	83	22	17
0406	121	101	52	39
0406	121	96	26	20
0406	121	117	30	23
0406	121	99	24	18
0406	121	82	13	10
0406	121	94	24	18
0406	121	73	10	8
0406	121	137	66	50
0406	121	94	24	18
0406	121	95	20	15
0406	121	83	15	11
0406	121	94	19	14
0406	121	82	14	11
0406	121	114	33	25
0406	121	93	25	19
0406	121	90	22	17
0406	121	138	65	49
0406	121	87	12	9
0406	121	160	94	71
0406	121	89	16	12
0406	121	106	25	19
0406	121	85	18	14
0406	121	83	12	9
0406	121	181	134	101
0406	121	122	59	44
0406	121	84	13	9
0406	121	94	23	17
0406	121	118	36	27
0406	121	92	-	-
0406	121	87	14	11
0406	121	98	26	20
0406	121	114	44	33
0406	121	116	48	36

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	123	123	51	38
0406	123	79	12	9
0406	123	84	13	10
0406	123	73	10	7
0406	123	76	11	8
0406	123	81	19	14
0406	123	76	11	8
0406	123	105	30	23
0406	123	79	10	8
0406	123	78	-	-
0406	123	75	10	7
0406	123	70	9	7
0406	123	78	12	9
0406	123	80	12	9
0406	123	81	15	11
0406	123	82	14	11
0406	123	85	15	11
0406	123	90	-	-
0406	123	94	20	15
0406	123	89	19	14
0406	123	86	-	-
0406	123	63	6	5
0406	123	89	-	-
0406	123	84	15	11
0406	123	75	10	8
0406	123	80	13	9
0406	123	85	15	11
0406	123	91	20	15
0406	123	77	11	8
0406	123	71	9	6
0406	123	66	7	5
0406	123	84	-	-
0406	123	98	22	16
0406	123	72	9	6
0406	123	74	11	8
0406	123	78	13	9
0406	123	82	13	9
0406	123	72	9	7
0406	123	83	14	10
0406	123	91	19	14
0406	123	117	43	32
0406	123	79	11	8
0406	123	70	10	7
0406	123	92	19	14
0406	123	80	14	10

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	123	87	15	11
0406	123	88	18	14
0406	123	80	18	14
0406	123	64	6	4
0406	123	83	13	10
0406	123	77	11	8
0406	123	91	18	14
0406	123	69	8	6
0406	123	83	13	9
0406	123	86	15	11
0406	123	76	12	9
0406	123	94	21	15
0406	123	69	8	6
0406	123	69	9	7
0406	123	87	16	12
0406	123	75	11	8
0406	123	83	13	9
0406	123	75	10	8
0406	123	78	11	8
0406	123	74	10	7
0406	123	90	20	15
0406	123	71	9	7
0406	123	84	16	12
0406	123	77	12	9
0406	123	91	17	13
0406	123	69	8	6
0406	123	73	11	8
0406	123	62	6	4
0406	123	73	10	7
0406	123	78	12	9
0406	123	80	13	10
0406	123	80	14	10
0406	123	78	11	8
0406	123	105	28	21
0406	123	78	12	9
0406	123	70	-	-
0406	123	128	55	41
0406	123	68	-	-
0406	123	71	9	7
0406	123	99	24	18
0406	123	90	18	13
0406	123	93	22	16
0406	123	86	17	12
0406	123	74	10	8
0406	123	90	18	14

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	123	103	32	24
0406	123	65	-	-
0406	123	76	-	-
0406	123	83	-	-
0406	123	69	7	5
0406	123	76	11	8
0406	123	81	12	9
0406	123	79	13	9
0406	123	75	11	8
0406	123	69	8	6
0406	123	66	7	5
0406	123	76	10	8
0406	123	59	5	4
0406	123	76	11	8
0406	123	70	9	6
0406	123	74	9	7
0406	123	65	7	5
0406	123	91	-	-
0406	123	88	17	13
0406	123	86	16	12
0406	123	102	-	-
0406	123	78	-	-
0406	123	68	-	-
0406	123	76	-	-
0406	123	91	-	-
0406	123	92	17	13
0406	123	84	-	-
0406	123	83	15	11
0406	123	84	-	-
0406	123	79	13	10
0406	123	81	14	11
0406	123	84	-	-
0406	123	65	-	-
0406	123	77	11	8
0406	123	77	11	8
0406	123	78	14	10
0406	123	68	-	-
0406	123	67	7	5
0406	123	68	8	6
0406	123	82	15	11
0406	123	84	21	15
0406	123	60	6	4
0406	123	70	10	7
0406	123	72	9	6
0406	123	89	15	11

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	123	80	14	11
0406	123	67	7	5
0406	123	92	19	14
0406	123	83	13	10
0406	123	85	17	12
0406	123	80	-	-
0406	123	76	-	-
0406	123	81	-	-
0406	123	88	-	-
0406	123	64	7	5
0406	123	76	11	8
0406	123	85	-	-
0406	123	89	18	14
0406	123	92	22	17
0406	123	66	6.5	5
0406	123	63	-	-
0406	123	68	-	-
0406	123	65	-	-
0406	123	73	-	-
0406	123	76	11	8
0406	123	80	-	-
0406	123	79	12	9
0406	123	74	11	8
0406	123	84	13	10
0406	124	93	19	14
0406	124	64	8	6
0406	124	72	12	9
0406	124	116	34	26
0406	124	107	30	23
0406	124	70	11	8
0406	124	105	32	24
0406	124	100	26	20
0406	124	105	33	25
0406	124	74	12	9
0406	124	92	23	17
0406	124	103	29	21
0406	124	79	14	11
0406	124	87	15	11
0406	124	70	8	6
0406	124	97	27	20
0406	124	84	16	12
0406	124	83	15	11
0406	124	76	12	9
0406	124	99	25	19
0406	124	110	32	24

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0406	124	113	40	30
0406	124	69	9	7
0406	124	119	46	35
0406	124	68	10	8
0406	124	69	-	-
0406	124	145	75	56
0406	124	69	-	-
0406	124	130	53	40
0406	124	59	-	-
0406	124	97	23	17
0406	124	119	47	35
0406	124	156	79	59
0406	124	77	14	11
0406	124	59	-	-
0406	124	67	7	5
0406	124	69	10	8
0406	124	131	70	53
0406	124	117	60	45
0406	124	105	34	26
0406	124	107	30	23
0406	124	77	13	10
0406	124	107	30	23
0406	124	108	37	28
0406	124	66	10	8
0406	124	78	16	12
0406	124	83	18	14
0406	124	94	25	19
0406	124	103	33	25
0406	124	80	14	11
0406	124	154	106	80
0406	124	86	15	11
0406	124	77	12	9
0406	124	76	11	8
0406	124	128	47	35
0406	124	113	40	30
0406	124	109	35	26
0407	12	96	20	15
0407	12	63	7	5
0407	12	66	6	5
0407	12	62	7	5
0407	12	107	35	26
0407	24	108	40	30
0407	24	80	13	10
0407	24	62	5	4
0407	24	76	10	8

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0407	24	68	8	6
0407	25	116	43	32
0407	25	95	29	22
0407	25	150	95	71
0407	25	129	57	43
0407	25	96	33	24
0407	121	84	18	14
0407	121	93	18	14
0407	121	120	-	-
0407	121	84	10	8
0407	121	67	7	5
0407	121	147	87	65
0407	121	75	16	12
0407	121	136	75	56
0407	121	119	39	29
0407	121	74	-	-
0407	121	145	80	60
0407	121	92	25	19
0407	121	91	-	-
0407	121	81	15	11
0407	121	80	15	11
0407	121	118	42	32
0407	121	78	-	-
0407	121	76	17	13
0407	121	82	14	11
0407	121	84	15	11
0407	121	100	-	-
0407	121	88	-	-
0407	121	91	17	13
0407	121	83	20	15
0407	121	168	164	123
0407	121	82	21	16
0407	121	93	19	14
0407	121	113	40	30
0407	121	81	14	11
0407	121	92	21	16
0407	121	139	67	50
0407	121	106	34	26
0407	121	98	25	19
0407	121	94	22	17
0407	121	84	15	11
0407	121	104	33	24
0407	121	87	18	14
0407	121	89	19	14
0407	121	125	54	40

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0407	121	112	40	30
0407	121	94	24	18
0407	121	93	21	16
0407	121	95	24	18
0407	121	91	21	15
0407	121	54	34	26
0407	121	84	14	11
0407	121	114	55	41
0407	121	122	65	49
0407	121	134	74	56
0407	121	88	17	13
0407	121	103	43	32
0407	123	89	17	13
0407	123	145	40	30
0407	123	80	13	9
0407	123	82	16	12
0407	123	81	14	11
0407	123	80	13	10
0407	123	90	16	12
0407	123	94	24	18
0407	123	83	14	11
0407	123	80	13	10
0407	123	89	18	14
0407	123	94	-	-
0407	123	82	18	14
0407	123	91	20	15
0407	123	80	10	8
0407	123	73	12	9
0407	123	68	10	7
0407	123	77	11	8
0407	123	76	12	9
0407	123	94	20	15
0407	123	87	-	-
0407	123	101	28	21
0407	123	89	20	15
0407	123	92	21	16
0407	123	88	20	15
0407	123	86	20	15
0407	123	92	19	14
0407	123	80	14	10
0407	123	86	-	-
0407	123	91	17	13
0407	123	88	-	-
0407	123	92	25	19
0407	123	71	8	6

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0407	123	74	10	8
0407	123	90	20	15
0407	123	108	35	26
0407	123	84	16	12
0407	123	84	14	11
0407	123	89	19	14
0407	123	131	63	47
0407	123	95	-	-
0407	123	97	-	-
0407	123	77	12	9
0407	123	115	-	-
0407	123	77	12	9
0407	123	80	12	9
0407	123	96	23	17
0407	123	93	-	-
0407	123	69	8	6
0407	123	77	11	8
0407	123	88	16	12
0407	123	76	11	8
0407	123	85	14	10
0407	123	64	-	-
0407	123	91	-	-
0407	123	92	-	-
0407	123	114	-	-
0407	123	90	-	-
0407	123	85	15	11
0407	123	77	11	8
0407	123	103	-	-
0407	123	79	-	-
0407	123	73	10	8
0407	123	63	-	-
0407	123	76	11	8
0407	123	65	-	-
0407	123	73	11	8
0407	123	64	7	5
0407	123	78	18	13
0407	123	95	21	15
0407	123	84	14	11
0407	123	88	19	14
0407	123	77	12	9
0407	123	91	21	15
0407	124	72	8	6
0407	124	75	10	7
0407	124	140	58	44
0407	124	81	13	10

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0407	124	111	37	28
0407	124	68	7	5
0407	124	117	41	31
0407	124	70	8	6
0407	124	77	9	7
0407	124	97	27	20
0407	124	77	14	11
0407	124	68	8	6
0407	124	71	10	8
0407	124	78	12	9
0407	124	75	12	9
0407	124	114	41	31
0407	124	95	23	17
0407	124	95	24	18
0407	124	97	33	25
0407	124	77	12	9
0407	124	96	24	18
0407	124	128	55	41
0407	124	93	21	16
0407	124	74	9	7
0407	124	110	33	24
0407	124	73	9	6
0407	124	94	22	17
0407	124	72	9	6
0407	124	70	8	6
0407	124	119	44	33
0407	124	131	61	46
0407	124	82	14	11
0407	124	103	28	21
0407	124	79	12	9
0407	124	79	12	9
0407	124	73	10	7
0407	124	101	27	20
0407	124	76	11	8
0407	124	70	8	6
0407	124	69	7	5
0407	125	59	10	8
0407	125	57	10	8
0407	125	55	10	8
0408	23	112	37	28
0408	23	103	32	24
0408	25	89	21	15
0408	25	102	26	20
0408	25	94	22	17
0408	25	75	11	8

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0408	121	81	-	-
0408	121	97	-	-
0408	121	82	-	-
0408	121	81	16	12
0408	121	88	-	-
0408	121	87	-	-
0408	121	86	-	-
0408	121	79	-	-
0408	121	81	-	-
0408	121	79	-	-
0408	121	98	-	-
0408	121	84	-	-
0408	121	110	35	26
0408	121	108	-	-
0408	121	87	-	-
0408	121	168	125	94
0408	121	90	18	14
0408	121	79	11	8
0408	121	100	29	22
0408	121	77	12	9
0408	121	109	35	26
0408	121	92	19	14
0408	121	91	18	14
0408	121	79	12	9
0408	121	109	-	-
0408	121	84	17	13
0408	121	82	14	11
0408	121	94	23	17
0408	121	125	70	53
0408	121	97	-	-
0408	121	69	-	-
0408	121	121	-	-
0408	121	67	-	-
0408	121	78	11	8
0408	123	88	-	-
0408	123	78	-	-
0408	123	85	18	13
0408	123	91	-	-
0408	123	87	-	-
0408	123	70	-	-
0408	123	110	-	-
0408	123	86	-	-
0408	123	79	-	-
0408	123	89	-	-
0408	123	70	8	6

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0408	123	119	48	36
0408	123	77	-	-
0408	123	93	-	-
0408	123	87	-	-
0408	123	85	-	-
0408	123	77	11	15
0408	123	77	12	9
0408	123	96	22	17
0408	123	91	20	15
0408	123	96	23	17
0408	123	86	15	11
0408	123	81	16	12
0408	123	74	11	8
0408	123	76	11	8
0408	123	76	12	9
0408	123	77	12	9
0408	123	75	-	-
0408	123	90	20	15
0408	123	72	-	-
0408	123	70	-	-
0408	123	124	46	35
0408	123	77	12	9
0408	123	76	11	8
0408	123	98	25	18
0408	123	80	14	10
0408	123	79	14	10
0408	123	70	9	7
0408	123	75	11	8
0408	123	83	15	11
0408	125	76	12	9
0408	125	98	26	19
0408	125	141	85	63
0408	125	69	10	8
0408	125	146	85	64
0408	125	101	30	23
0408	125	107	44	33
0408	125	108	38	29
0408	125	78	12	9
0408	125	74	10	8
0408	125	64	6	5
0408	125	82	16	12
0408	125	69	10	8
0408	125	86	21	15
0408	125	136	70	53
0408	125	168	148	111

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0408	125	147	95	71
0408	125	98	26	20
0408	125	91	20	15
0408	125	74	10	8
0408	125	95	25	19
0408	125	140	62	46
0408	125	64	9	7
0408	125	139	84	63
0408	125	83	15	11
0408	125	87	17	13
0408	125	159	107	80
0408	125	95	37	28
0408	125	124	63	47
0408	125	74	10	8
0409	19	108	40	30
0409	19	91	23	17

Date (yymm)	Area	Fork Length (cm)	Round Weight (lbs)	Net Weight (lbs)
0409	121	104	-	-
0409	121	102	-	-
0409	121	71	-	-
0409	121	75	10	8
0409	123	107	36	27
0410	19	147	34	26
0410	19	165	93	70
0410	19	119	54	41
0410	19	118	57	43
0410	20	114	45	33
0410	20	123	57	43
0411	19	113	35	26
0412	19	84	16	12
0412	19	97	27	20
0412	19	87	18	14